

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112718\
 Data File : VN052497.D
 Acq On : 28 Nov 2018 00:19
 Operator : MD\SY
 Sample : J6067-03 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-3

Quant Time: Nov 28 06:19:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	181265	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	987491	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	810348	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	368935	29.87	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.57%
60) 4-Bromofluorobenzene	12.40	95	322686	26.04	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	86.80%
63) Toluene-d8	10.09	98	1129432	30.06	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.20%

Target Compounds

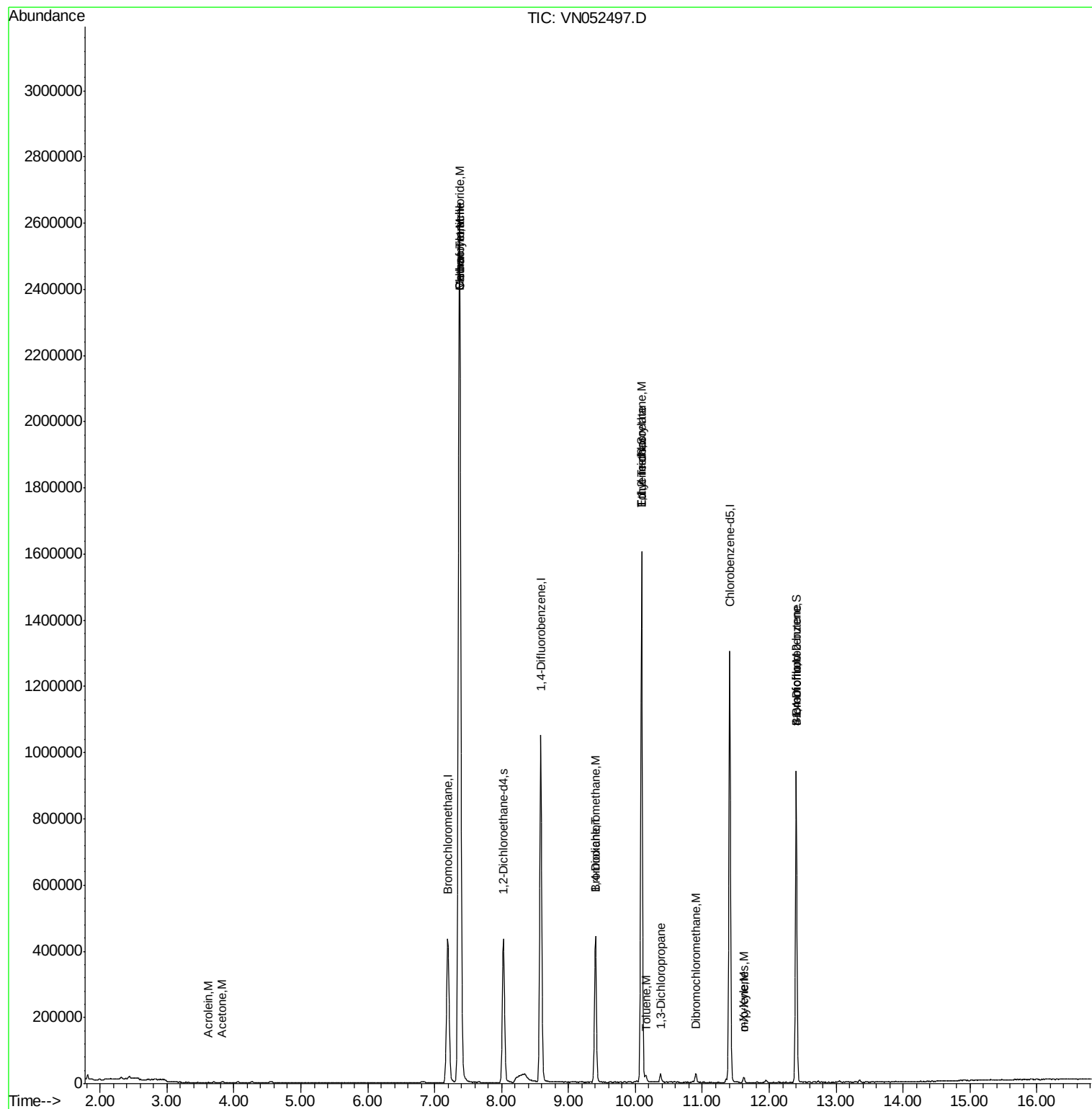
					Ovalue
13) Acrolein	3.61	56	616	0.607 ug/l	100
15) Acetone	3.82	58	753	0.790 ug/l #	44
25) Chloroform	7.37	83	2892479	141.206 ug/l	99
33) Carbon Tetrachloride	7.37	117	33106	2.411 ug/l	96
35) Methacrylonitrile	7.37	41	7873	1.573 ug/l #	26
41) Bromodichloromethane	9.40	83	313665	21.617 ug/l	97
45) 1,4-Dioxane	9.40	88	96	1.166 ug/l #	24
50) 1,1,2-Trichloroethane	10.10	97	32127	3.451 ug/l #	1
51) Ethyl methacrylate	10.10	69	3596	0.308 ug/l	76
52) 1,3-Dichloropropane	10.37	76	4388	0.265 ug/l #	42
53) Dibromochloromethane	10.90	129	14317	1.397 ug/l	93
56) Bromoform	12.40	173	2153	0.321 ug/l #	1
62) Toluene	10.16	91	13540	0.303 ug/l	98
67) m/p-Xylenes	11.62	106	5951	0.332 ug/l	87
68) o-Xylene	11.62	106	5951	0.342 ug/l	80
77) t-1,4-Dichloro-2-butene	12.40	75	155529	56.919 ug/l #	11

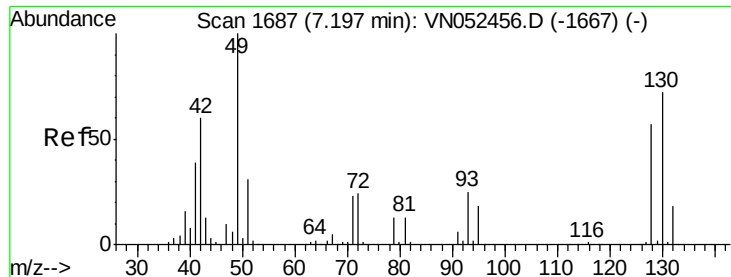
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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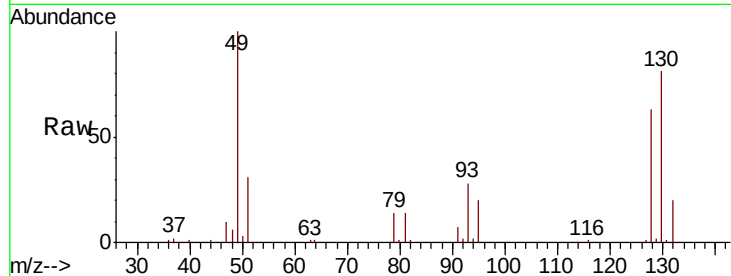




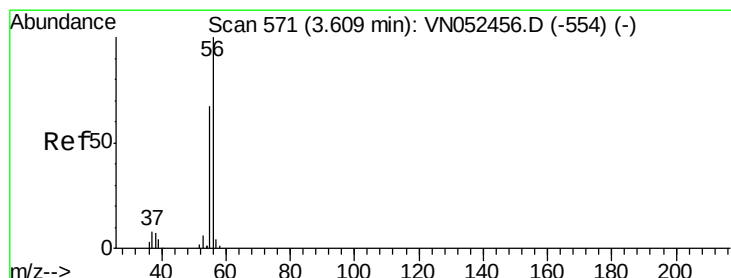
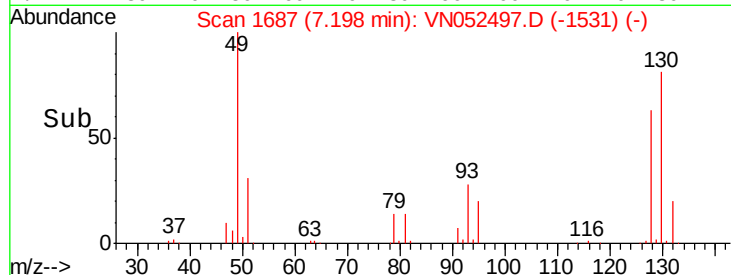
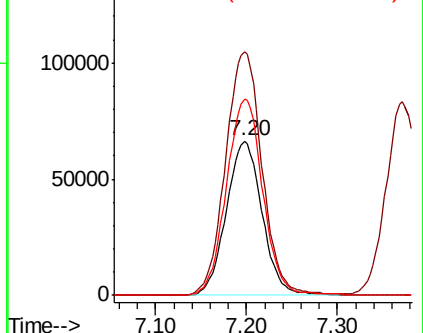
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN052497.D
Acq: 28 Nov 2018 00:19

Instrument :
MSVOA_N
ClientSampled :
14B-3

Tot Ion:128 Resp: 181265
Ion Ratio Lower Upper
128 100
49 161.3 0.0 431.8
130 128.6 0.0 317.0

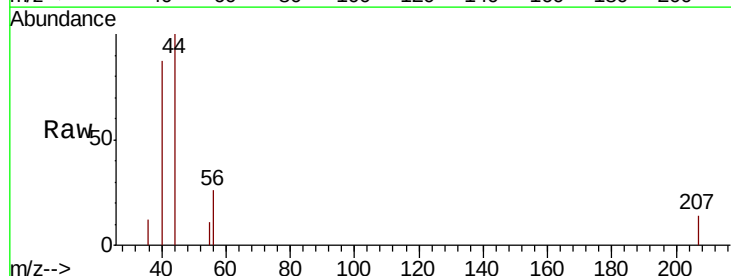


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V

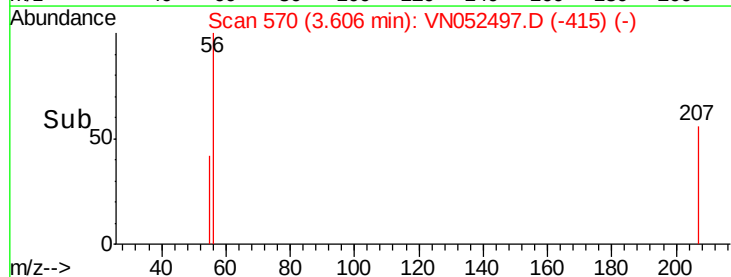
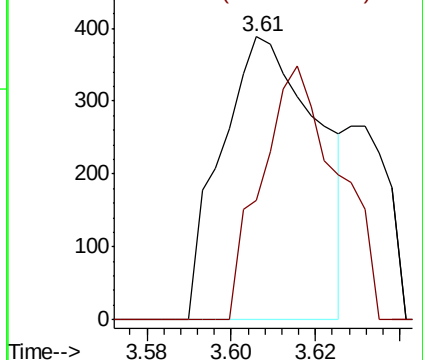


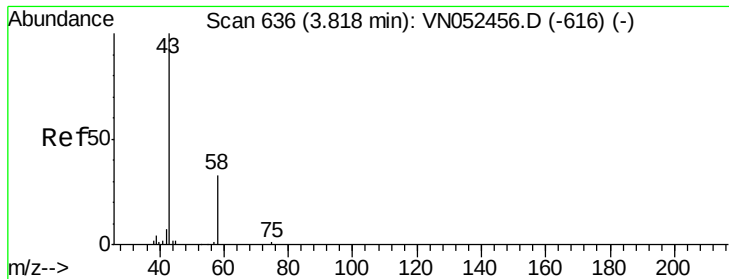
#13
Acrolein
Concen: 0.607 ug/l
RT: 3.61 min Scan# 570
Delta R.T. -0.00 min
Lab File: VN052497.D
Acq: 28 Nov 2018 00:19

Tgt Ion: 56 Resp: 616
Ion Ratio Lower Upper
56 100
55 70.8 56.7 85.1



Abundance Ion 56.00 (55.70 to 56.70): VN
Ion 55.00 (54.70 to 55.70): VN





#15

Acetone

Concen: 0.790 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052497.D

Acq: 28 Nov 2018 00:19

Instrument :

MSVOA_N

ClientSampled :

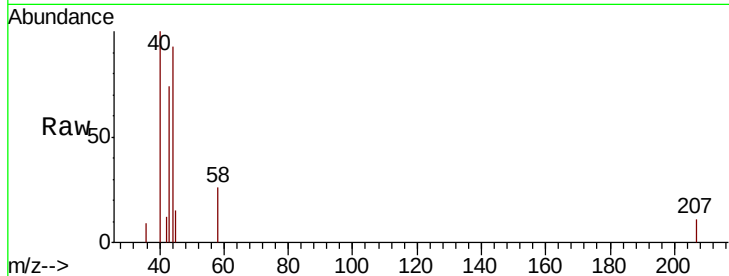
14B-3

Tot Ion: 58 Resp: 753

Ion Ratio Lower Upper

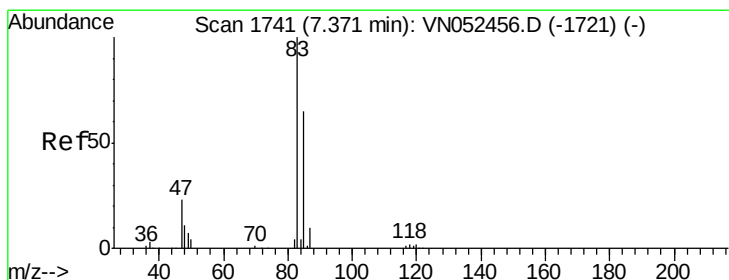
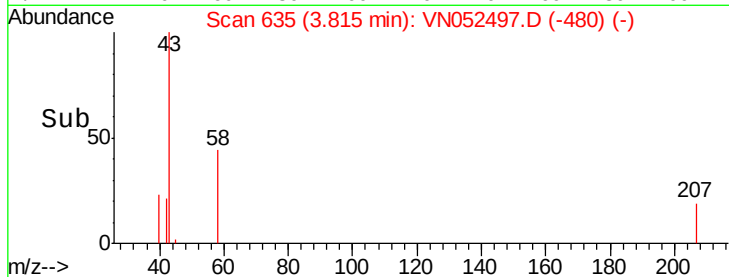
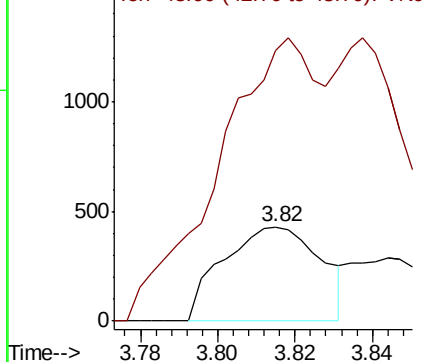
58 100

43 193.5 243.6 365.4#



Abundance Ion 58.00 (57.70 to 58.70): VN052456.D (-616) (-)

Ion 43.00 (42.70 to 43.70): VN052456.D (-616) (-)



#25

Chloroform

Concen: 141.206 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VN052497.D

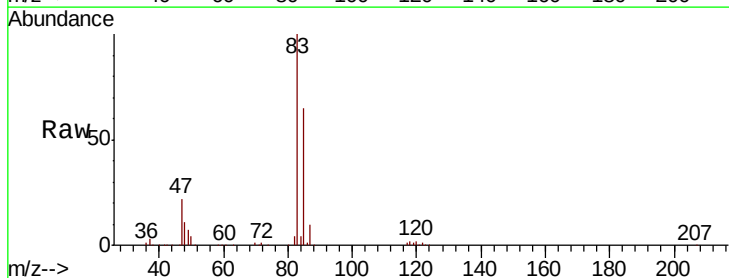
Acq: 28 Nov 2018 00:19

Tgt Ion: 83 Resp: 2892479

Ion Ratio Lower Upper

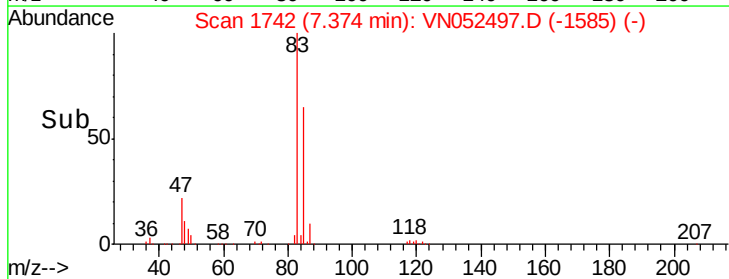
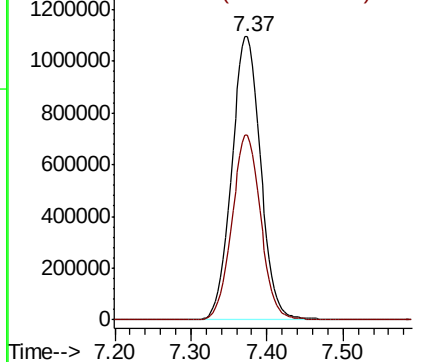
83 100

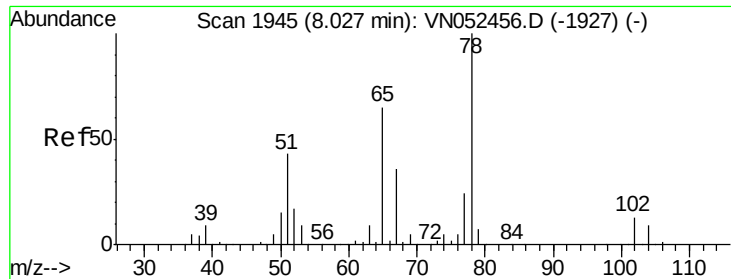
85 65.1 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): VN052456.D (-1721) (-)

Ion 85.00 (84.70 to 85.70): VN052456.D (-1721) (-)

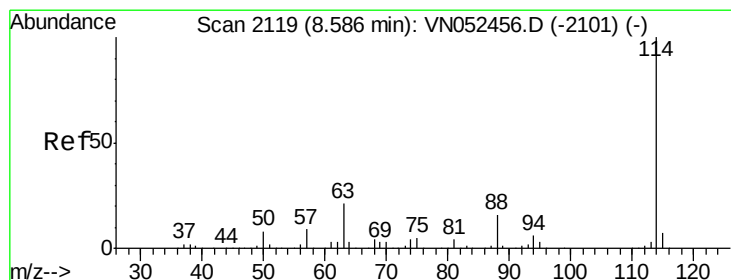
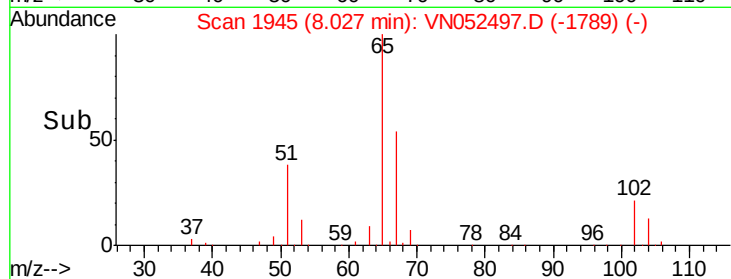
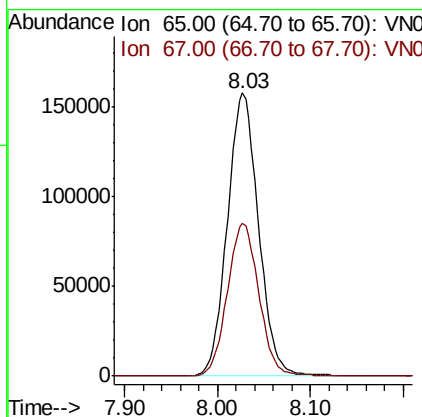
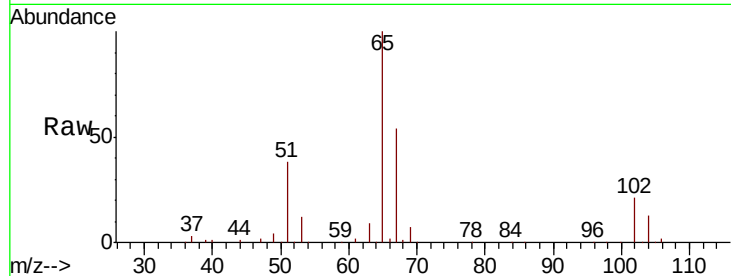




#27
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052497.D
 Acq: 28 Nov 2018 00:19

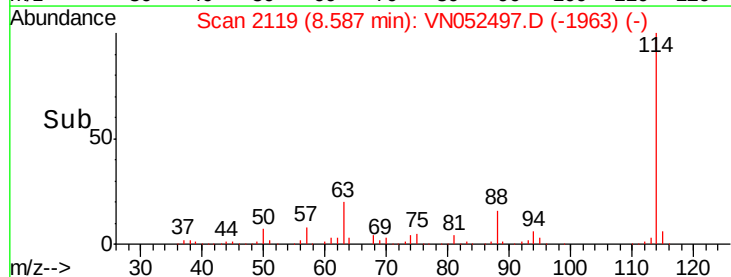
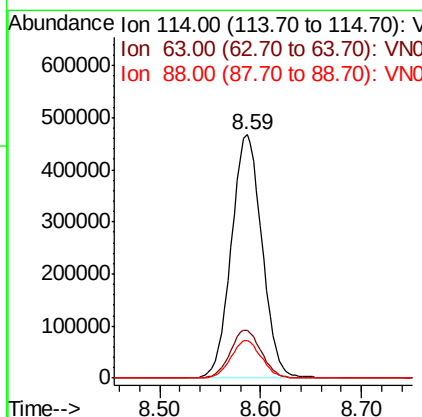
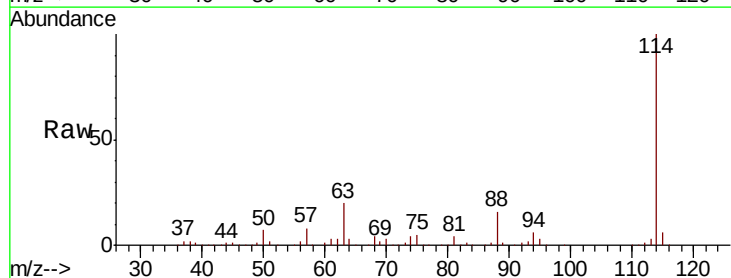
Instrument :
 MSVOA_N
 ClientSampleId :
 14B-3

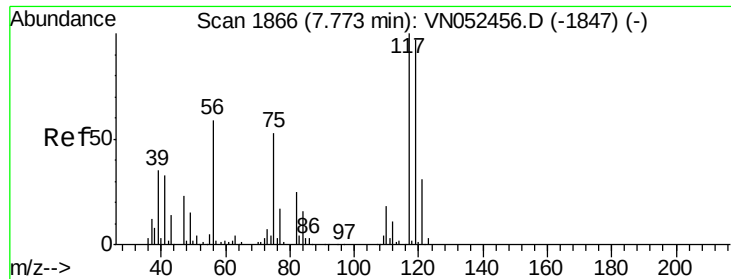
Tot Ion: 65 Resp: 368935
 Ion Ratio Lower Upper
 65 100
 67 54.4 44.6 66.8



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052497.D
 Acq: 28 Nov 2018 00:19

Tgt Ion: 114 Resp: 987491
 Ion Ratio Lower Upper
 114 100
 63 19.9 16.9 25.3
 88 15.4 12.8 19.2

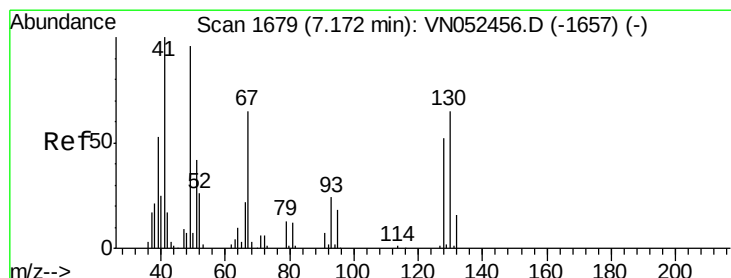
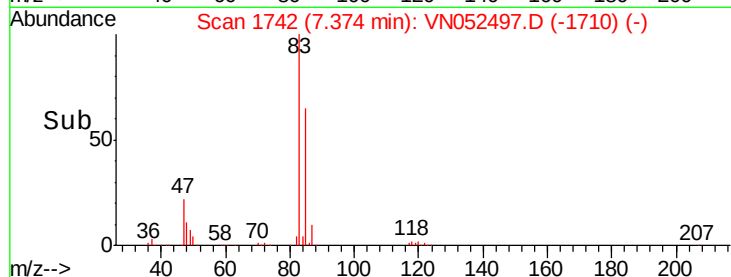
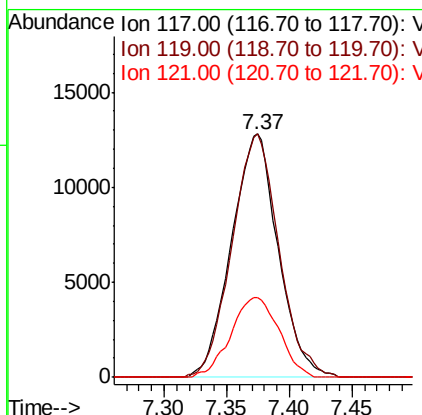
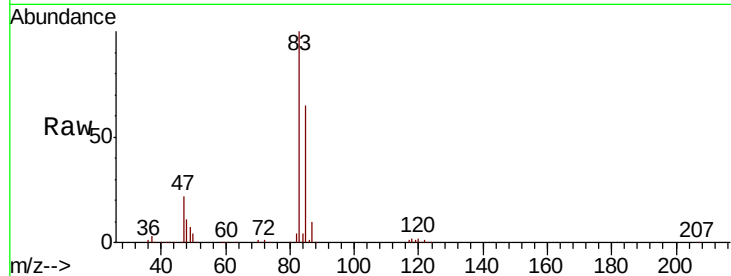




#33
Carbon Tetrachloride
Concen: 2.411 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.40 min
Lab File: VN052497.D
Acq: 28 Nov 2018 00:19

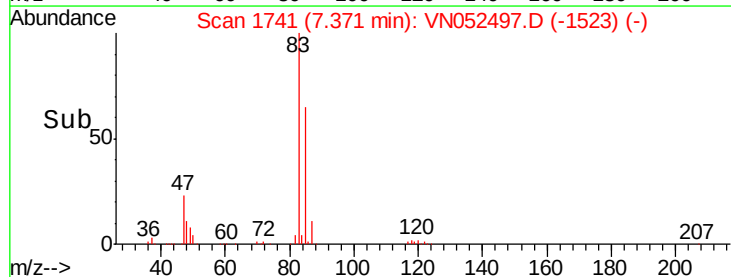
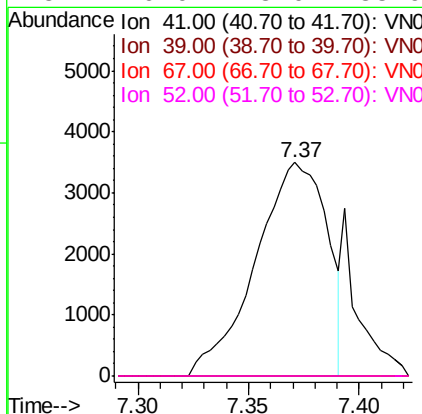
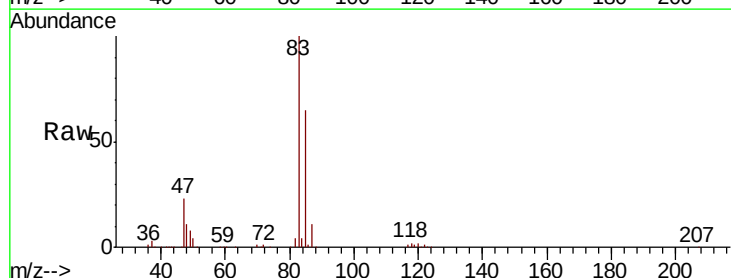
Instrument :
MSVOA_N
ClientSampleId :
14B-3

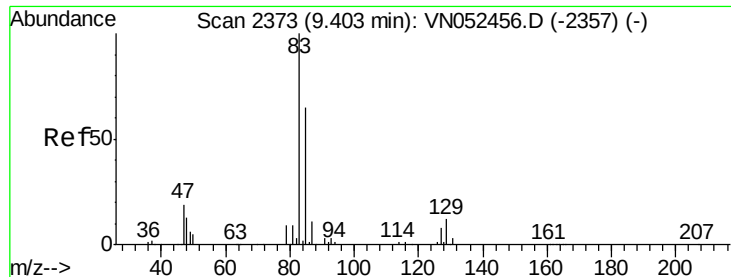
Tot Ion:117 Resp: 33106
Ion Ratio Lower Upper
117 100
119 101.2 77.3 115.9
121 33.0 24.9 37.3



#35
Methacrylonitrile
Concen: 1.573 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.20 min
Lab File: VN052497.D
Acq: 28 Nov 2018 00:19

Tgt Ion: 41 Resp: 7873
Ion Ratio Lower Upper
41 100
39 0.0 26.6 79.7#
67 0.0 32.3 96.9#
52 0.0 13.0 38.9#





#41

Bromodichloromethane

Concen: 21.617 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052497.D

Acq: 28 Nov 2018 00:19

Instrument :

MSVOA_N

ClientSampled :

14B-3

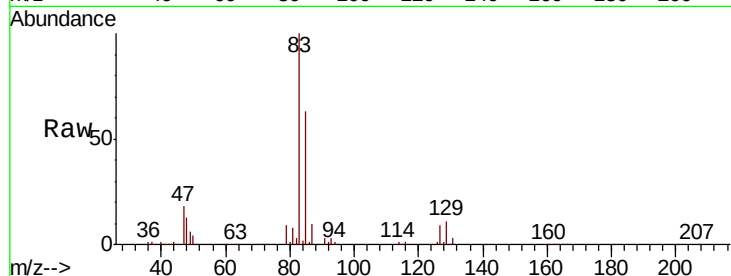
Tot Ion: 83 Resp: 313665

Ion Ratio Lower Upper

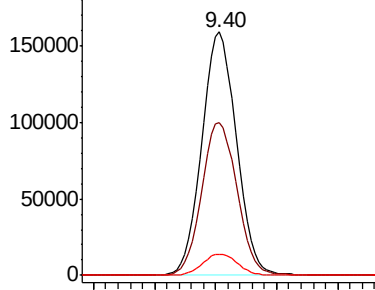
83 100

85 63.0 52.4 78.6

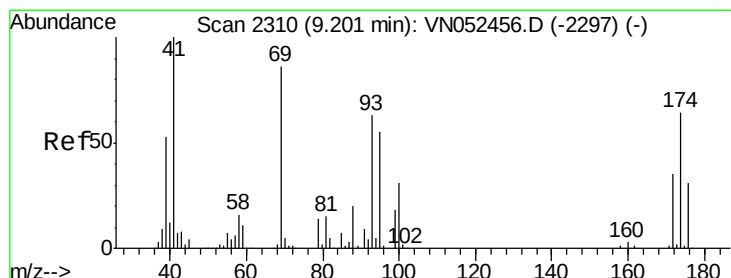
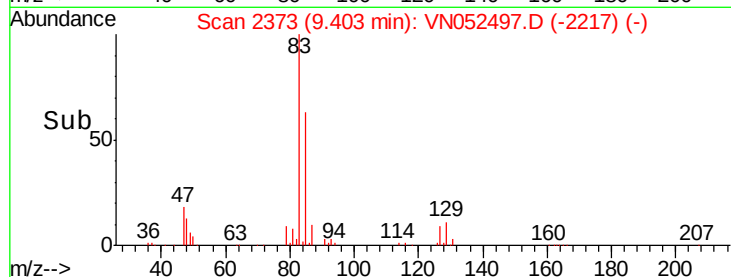
127 8.8 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 85.00 (84.70 to 85.70): VN0
Ion 127.00 (126.70 to 127.70): VN0



Time--> 9.30 9.35 9.40 9.45 9.50



#45

1,4-Dioxane

Concen: 1.166 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.20 min

Lab File: VN052497.D

Acq: 28 Nov 2018 00:19

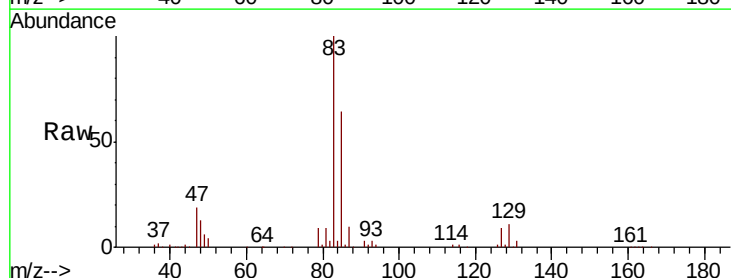
Tgt Ion: 88 Resp: 96

Ion Ratio Lower Upper

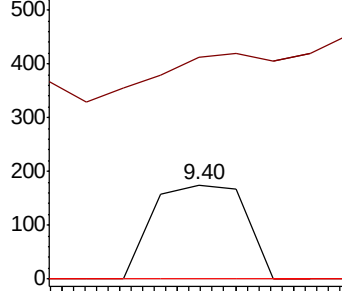
88 100

43 65.6 29.5 44.3#

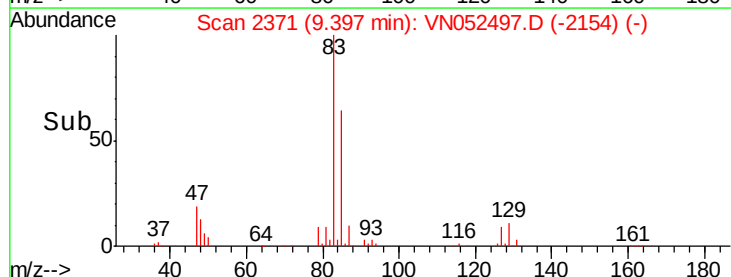
58 0.0 61.5 92.3#

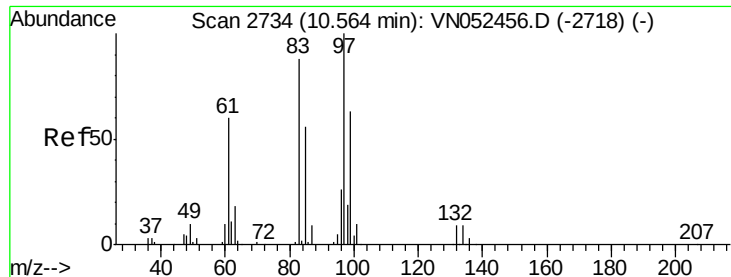


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



Time--> 9.38 9.39 9.39 9.40 9.40





#50

1,1,2-Trichloroethane

Concen: 3.451 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.47 min

Lab File: VN052497.D

Acq: 28 Nov 2018 00:19

Instrument :

MSVOA_N

ClientSampleId :

14B-3

Tot Ion: 97 Resp: 32127

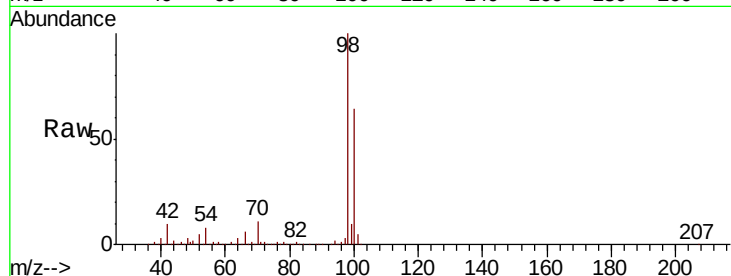
Ion Ratio Lower Upper

97 100

83 2.5 70.4 105.6#

85 0.0 45.0 67.6#

99 313.6 50.2 75.2#

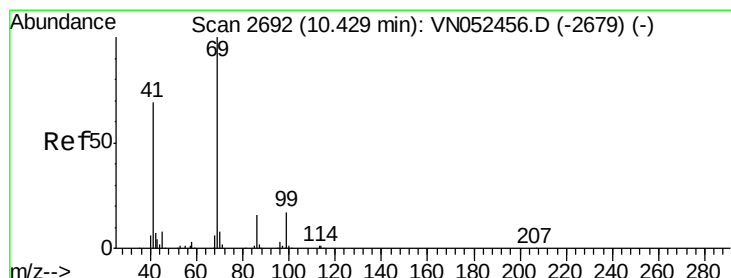
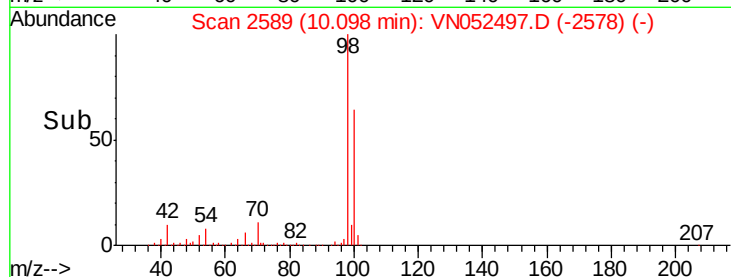
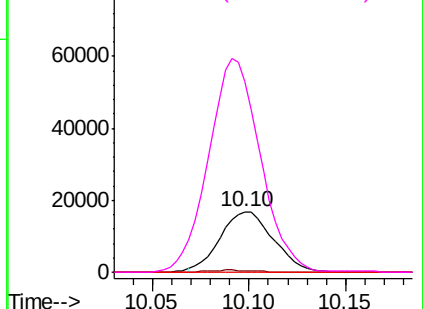


Abundance Ion 97.00 (96.70 to 97.70): VN0

Ion 82.95 (82.65 to 83.65): VN0

Ion 84.95 (84.65 to 85.65): VN0

Ion 98.95 (98.65 to 99.65): VN0



#51

Ethyl methacrylate

Concen: 0.308 ug/l

RT: 10.10 min Scan# 2590

Delta R.T. -0.33 min

Lab File: VN052497.D

Acq: 28 Nov 2018 00:19

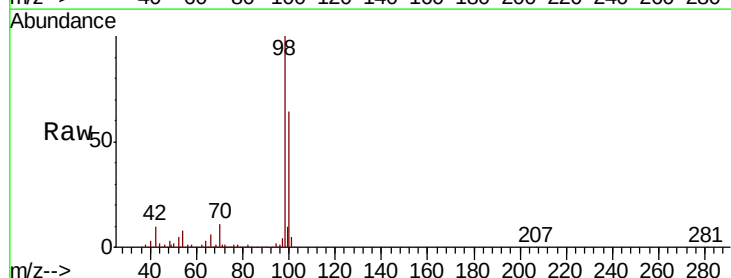
Tgt Ion: 69 Resp: 3596

Ion Ratio Lower Upper

69 100

41 46.5 34.4 103.3

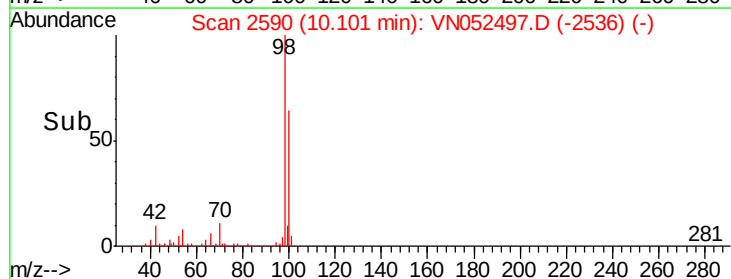
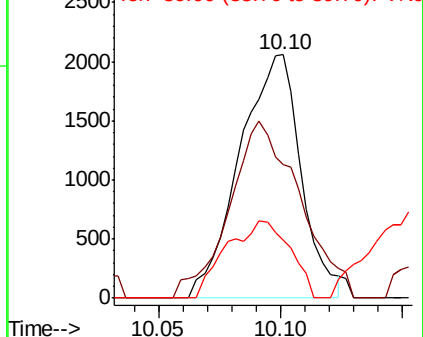
39 23.9 16.4 49.2

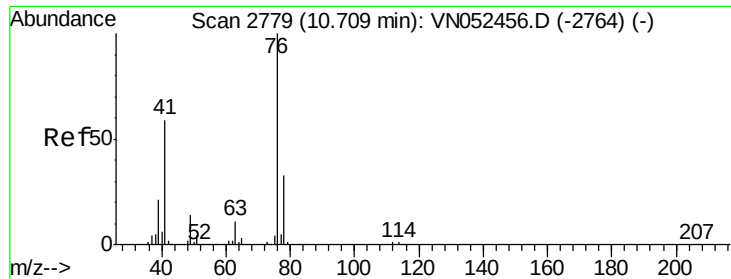


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#52

1,3-Dichloropropane

Concen: 0.265 ug/l

RT: 10.37 min Scan# 2674

Delta R.T. -0.34 min

Lab File: VN052497.D

Acq: 28 Nov 2018 00:19

Instrument :

MSVOA_N

ClientSampled :

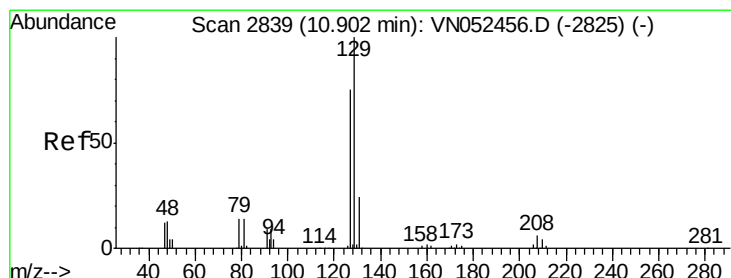
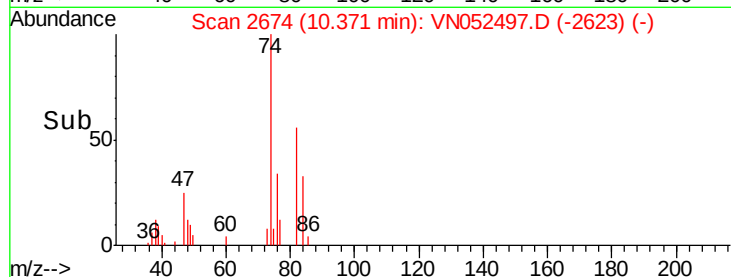
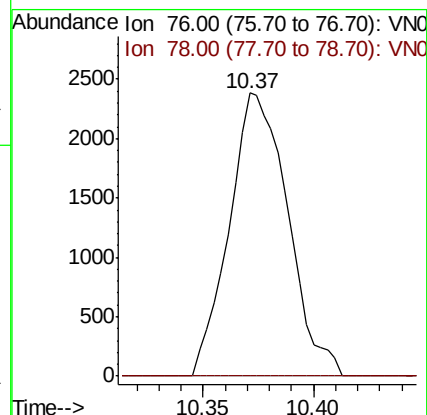
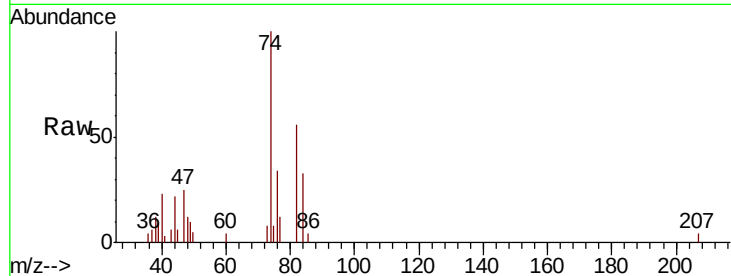
14B-3

Tot Ion: 76 Resp: 4388

Ion Ratio Lower Upper

76 100

78 0.0 0.0 64.8



#53

Dibromochloromethane

Concen: 1.397 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN052497.D

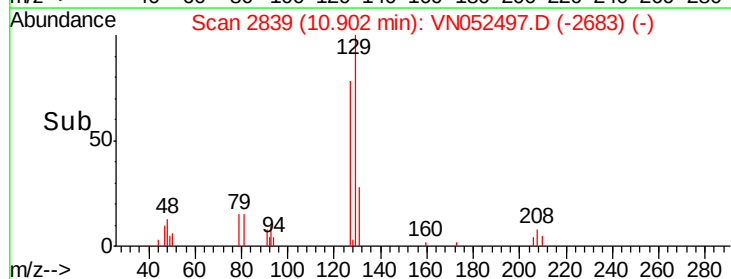
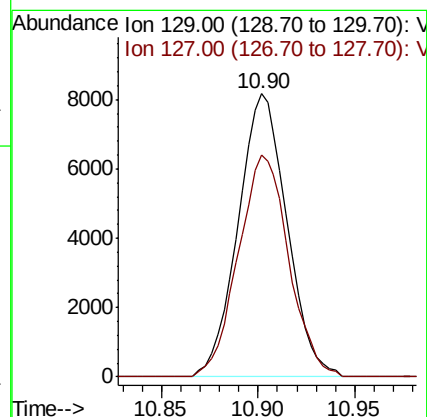
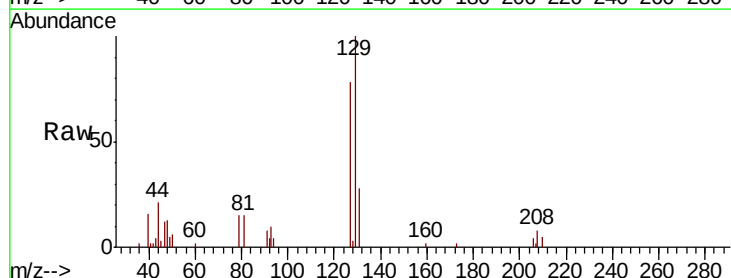
Acq: 28 Nov 2018 00:19

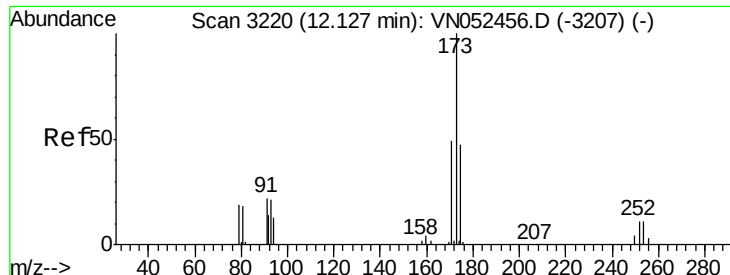
Tgt Ion: 129 Resp: 14317

Ion Ratio Lower Upper

129 100

127 81.0 37.6 112.8





#56

Bromoform

Concen: 0.321 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052497.D

Acq: 28 Nov 2018 00:19

Instrument :

MSVOA_N

ClientSampleId :

14B-3

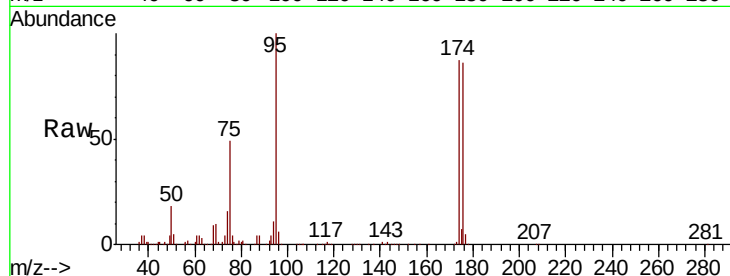
Tot Ion:173 Resp: 2153

Ion Ratio Lower Upper

173 100

175 981.3 38.7 58.1#

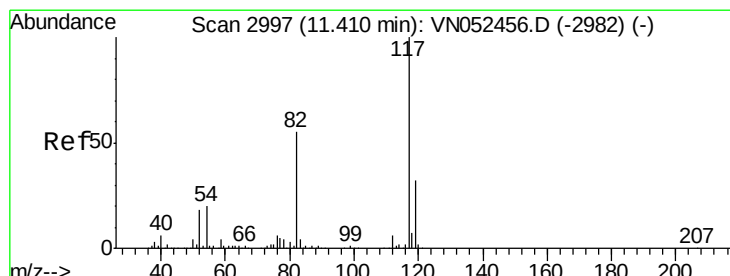
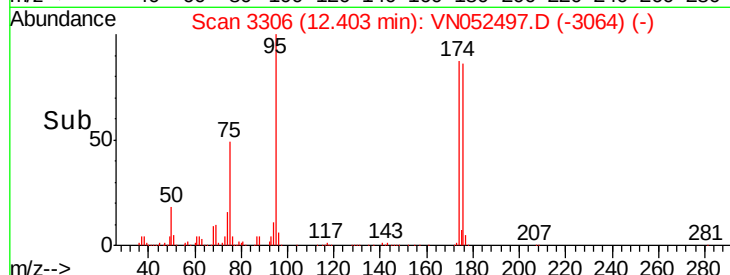
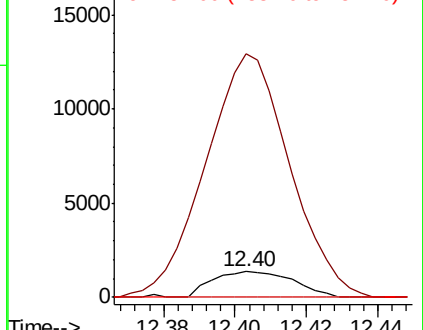
254 0.0 8.4 12.6#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN052497.D

Acq: 28 Nov 2018 00:19

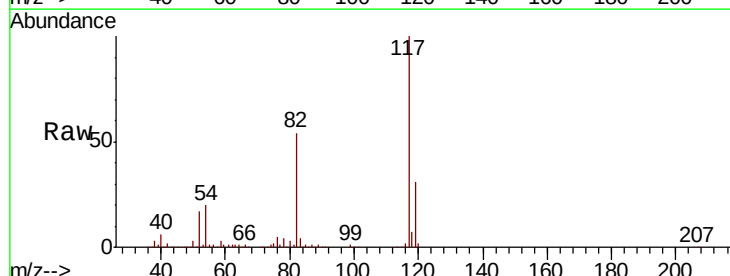
Tgt Ion:117 Resp: 810348

Ion Ratio Lower Upper

117 100

82 54.0 44.2 66.2

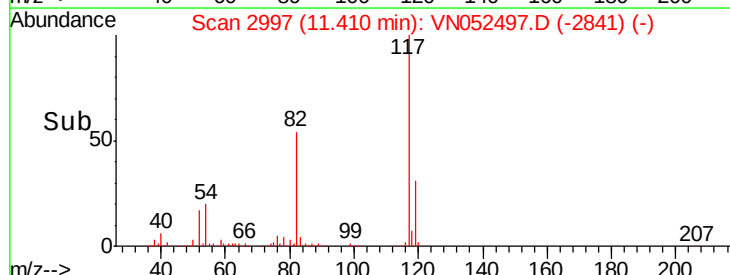
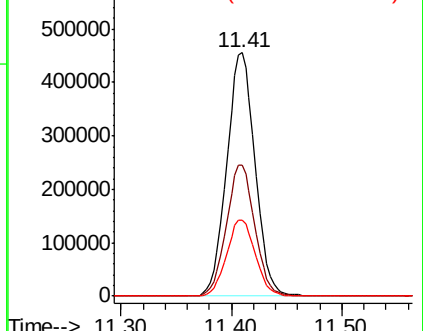
119 31.9 25.4 38.2

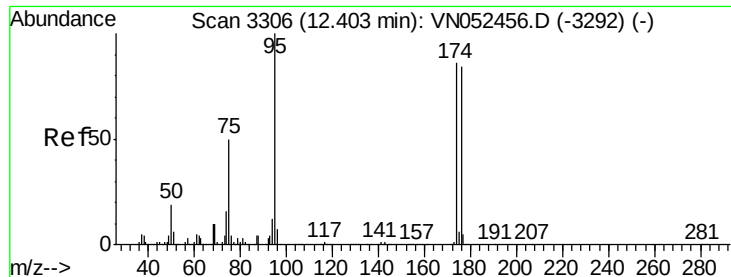


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

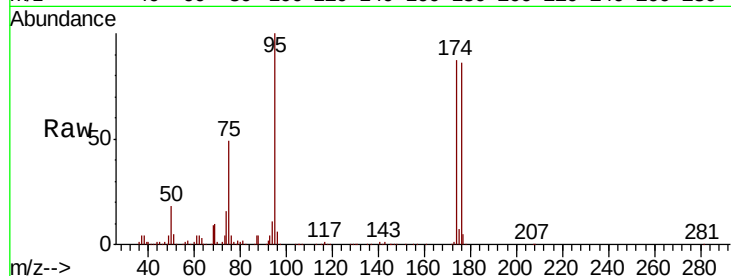




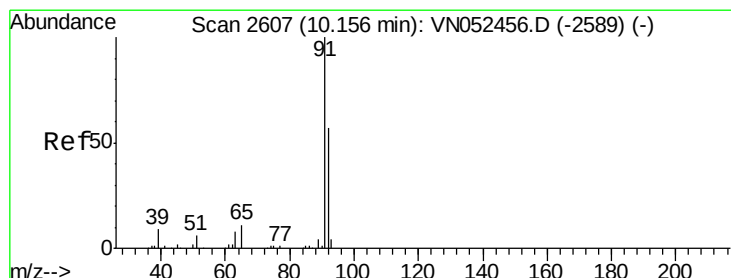
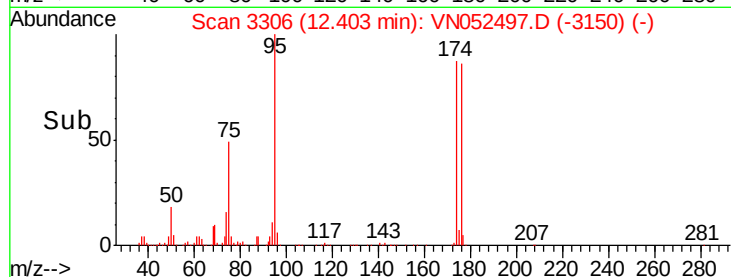
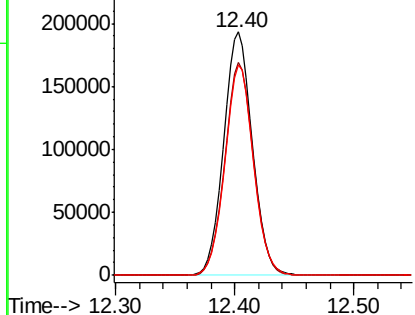
#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052497.D
Acq: 28 Nov 2018 00:19

Instrument :
MSVOA_N
ClientSampled :
14B-3

Tot Ion: 95 Resp: 322686
Ion Ratio Lower Upper
95 100
174 87.2 67.9 101.9
176 85.7 66.4 99.6

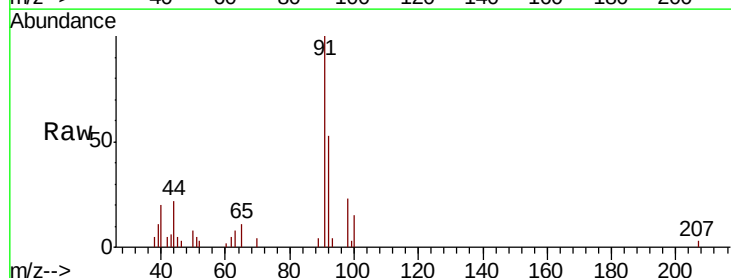


Abundance Ion 95.00 (94.70 to 95.70): VN0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

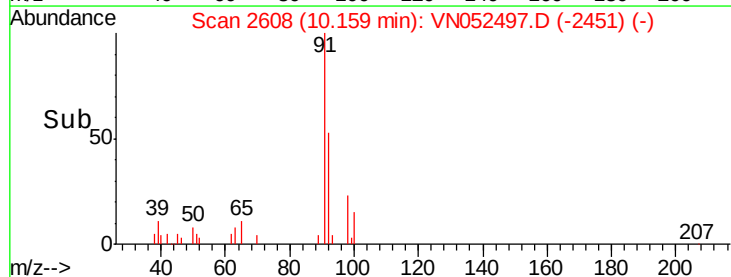
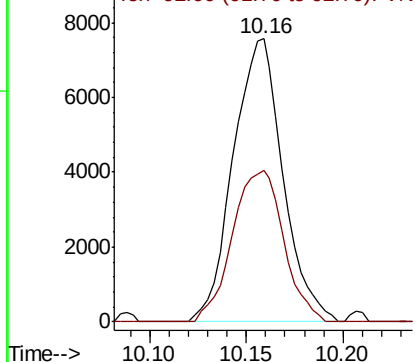


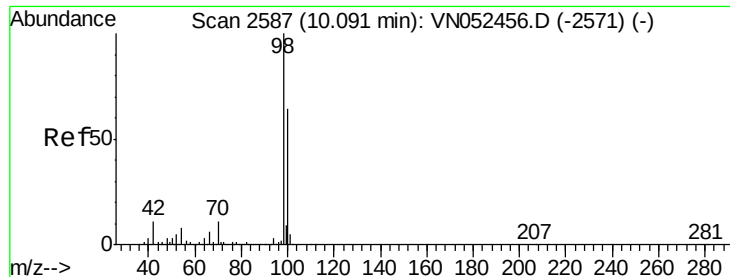
#62
Toluene
Concen: 0.303 ug/l
RT: 10.16 min Scan# 2608
Delta R.T. 0.00 min
Lab File: VN052497.D
Acq: 28 Nov 2018 00:19

Tgt Ion: 91 Resp: 13540
Ion Ratio Lower Upper
91 100
92 55.0 45.4 68.2



Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 92.00 (91.70 to 92.70): VN0





#63

Toluene-d8

Concen: 0.303 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052497.D

Acq: 28 Nov 2018 00:19

Instrument :

MSVOA_N

ClientSampleId :

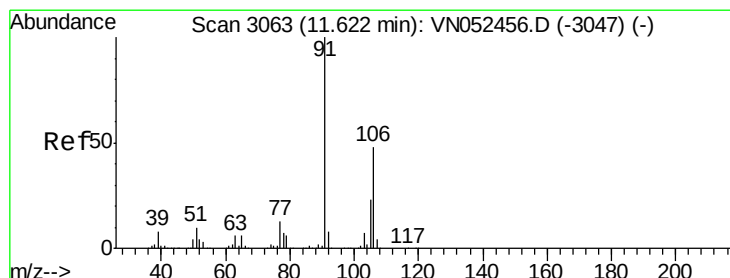
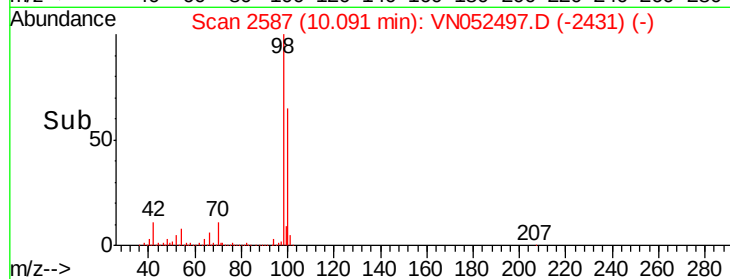
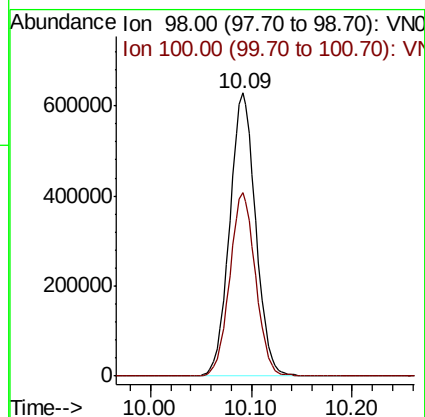
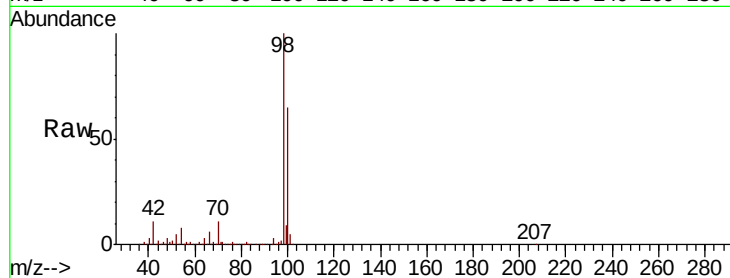
14B-3

Tot Ion: 98 Resp: 1129432

Ion Ratio Lower Upper

98 100

100 64.5 51.1 76.7



#67

m/p-Xylenes

Concen: 0.332 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN052497.D

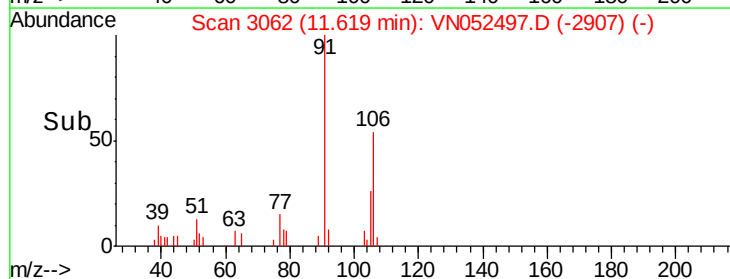
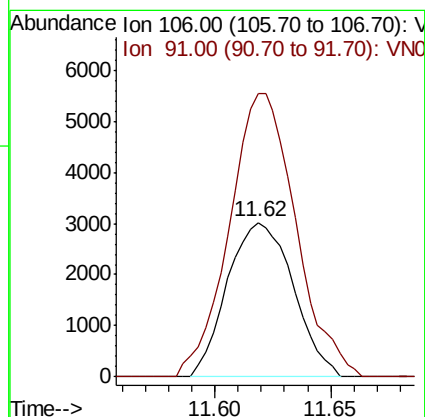
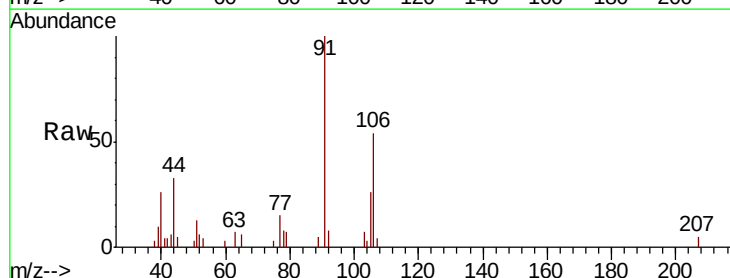
Acq: 28 Nov 2018 00:19

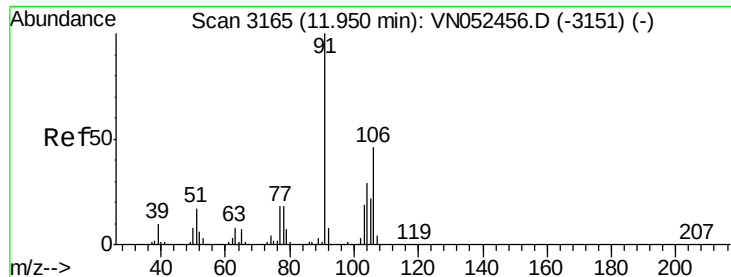
Tgt Ion: 106 Resp: 5951

Ion Ratio Lower Upper

106 100

91 184.6 163.9 245.9





#68

o-Xylene

Concen: 0.342 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.33 min

Lab File: VN052497.D

Acq: 28 Nov 2018 00:19

Instrument :

MSVOA_N

ClientSampled :

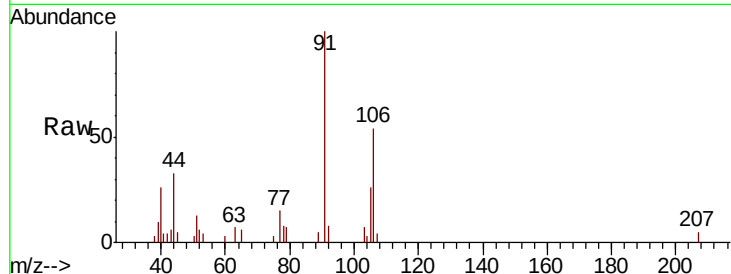
14B-3

Tot Ion:106 Resp: 5951

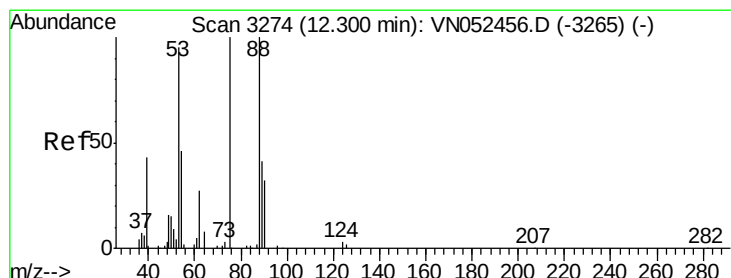
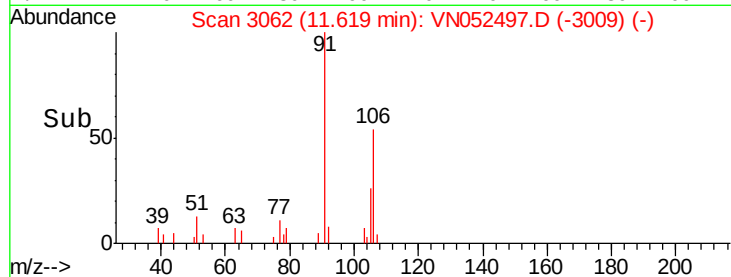
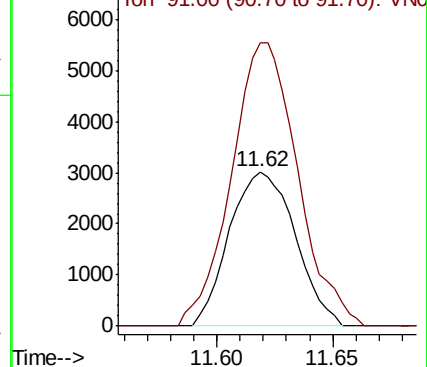
Ion Ratio Lower Upper

106 100

91 184.6 107.8 323.4



Abundance Ion 106.00 (105.70 to 106.70): VN052497.D (-3062) (-)



#77

t-1,4-Dichloro-2-butene

Concen: 56.919 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052497.D

Acq: 28 Nov 2018 00:19

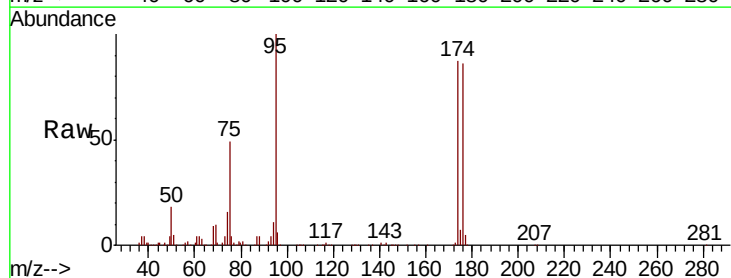
Tgt Ion: 75 Resp: 155529

Ion Ratio Lower Upper

75 100

53 0.0 48.5 145.6#

89 0.0 21.7 65.1#



Abundance Ion 75.00 (74.70 to 75.70): VN052497.D (-3306) (-)

